Fields of Opportunities

STATE OF IOWA

MASTER AGREEMENT

Contract Declaration and Execution

EFFECTIVE BEGIN DATE: 04-25-2008
EXPIRATION DATE: 04-24-2009

VENDOR:
G S Robins & Company
PO Box 790100

Saint Louis, MO 63179-0100
USA

VENDOR CONTACT:
Andy Waggoner
PHONE: 217-242-8249 **EXT:**
EMAIL: andyw@gsrobins.com

FOB FOB Dest, Freight Prepaid

ISSUER:
JEANETTE CHUPP
PHONE: 515-281-6288
EMAIL: Jeanette.Chupp@iowa.gov

Contract For: Chlorine Gas Cylinders for Water Treatment

The parties agree to comply with the terms and conditions on the following attachments which are by this reference made a part of the Agreement.
Attachment 1: General Terms and Conditions for services/goods contracts posted at web-site: http://das.gse.iowa.gov/terms_goods.pdf and http://das.gse.iowa.gov/terms_services.pdf
Attachment 2: Contractor's Response to Competitive Bid RFB0707005046 of April 6, 2007.
Attachment 3: Contractor's Cost Response to RFB0707005046 of April 6, 2007.
.
Facility to be serviced: Iowa State Penitentiary, 31 Avenue G, Fort Madison, Iowa:
$ 68.25 per 150 lb. cylinder (delivered)
Minimum Order: 16 each, 150 lb. cylinders.
Empty Cylinders picked-up at the following delivery appointment. Cylinder Deposit: None
FOB: Destination
Payment Terms: Net 30 days

Customer Service: Phone 800-626-5155 or FAX 314-621-1216
E-Mail: kadiel@gsrobins.com or Web-Site: www.gsrobins.com

RENEWAL OPTIONS
FROM 04-25-2009 **TO** 04-24-2010
FROM 04-25-2010 **TO** 04-24-2011

AUTHORIZED DEPARTMENT
242 Corrections Fort Madison

IN WITNESS WHEREOF, this Agreement has been executed by the parties hereto.

CONTRACTOR	STATE OF IOWA
CONTRACTOR'S NAME (If other than an individual, state whether a corp., partnership, etc.) G.S. Robins & Co.	AGENCY NAME Dept. Administrative Services
BY (Authorized Signature) Date Signed 4/11/08	BY (Authorized Signature) Date Signed Jeanette Chupp April 11, 2008
Printed Name and Title of Person Signing Tim Heidenry - Central Region Sales Mgr	Printed Name and Title of Person Signing Jeanette Chupp
Address 126 Chouteau Ave St. Louis, MO 63102	Address Hoover Bldg, Des Moines, Iowa

STATE OF IOWA

MASTER AGREEMENT

Contract Declaration and Execution

EFFECTIVE BEGIN DATE: 04-25-2008
EXPIRATION DATE: 04-24-2009

LINE NO.	QUANTITY / SERVICE DATES	UNIT	COMMODITY / DESCRIPTION	UNIT COST / PRICE OF SERVICE
1	0.00000	CYL	88538 **Chlorine, Liquefied** Chlorine Gas (for water treatment) 150 lb. Cylinder Minimum Order: 16 cylinders	$68.250000 $0.000000
2	0.00000		88538 **Chlorine, Liquefied** For Service at Fort Madison Contact Gregg Brush E-Mail: greggb@gsrobins.com Cell Phone: 314-303-6234	$0.000000 $0.000000

STATE OF IOWA

MASTER AGREEMENT

Contract Declaration and Execution

TERMS AND CONDITIONS

Terms & Conditions Goods

The parties agree to comply with the terms and conditions on the following web site which are by this reference made a part of the Agreement.

General Terms and Conditions for goods contracts are posted at: http://das.gse.iowa.gov/terms_goods.pdf

Terms & Conditions Service

The parties agree to comply with the terms and conditions on the following web site which are by this reference made a part of the Agreement.

General Terms and Conditions for service contracts are posted at: http://das.gse.iowa.gov/terms_services.pdf

REQUEST FOR BID FORM

BID Number 0707005046

Bids are due on or before

3:00 P.M., April 6, 2007

Iowa Department of Administrative Services
General Services Enterprise

Bid Packets must be submitted in hard-copy via mail or courier as directed in Section #28.

Purchasing Agent: Jeanette Chupp

1.) **Review the attached entire bid specification package**
2.) **Complete and return the 3-Page "Request for Bid" Form, and the MSDS Sheet for the product offered via U.S. Mail or Courier per Section #28.**

Complete Pricing below for annual "delivered" contract pricing per the attached specification package.....

One (1) Each, Chlorine Gas, 150 lb. Cylinder, Delivered...$ 143 per 150 lb. Cylinder

Chlorine Gas:
Chemical Family: Halogen
Chemical Name/Synonym: Chlorine
Formula: Cl2 (Cl-Cl)
C.A.S. Registry No. 7782-50-5

Cylinder: 150 lb. Size ... Minimum Order Quantity: 10 cylinders
Meeting all Federal, State, Local requirements
for the sale and transport of Chlorine Gas.

Delivered: Delivered on an as-needed basis within 15-days to ...
Woodward Resource Facility,
1251 – 334th Street, **Woodward**, Iowa, 50276

One (1) Each, Chlorine Gas, 150 lb. Cylinder, Delivered...$ 68.25 per 150 lb. Cylinder

Chlorine Gas:
Chemical Family: Halogen
Chemical Name/Synonym: Chlorine
Formula: Cl2 (Cl-Cl)
C.A.S. Registry No. 7782-50-5

Cylinder: 150 lb. Size, ... Minimum Order Qty: 16 cylinders
Meeting all Federal, State, Local requirements
for sale and transport of Chlorine Gas.

Delivered: Delivered on an as-needed basis within 15-days to the ...
Iowa State Penitentiary
31 Avenue "G"
P.O. Box 316
Fort Madison, Iowa, 53627

AWARD
Ft. Madison, Iowa

(Continued on the next page)

REQUEST FOR BID FORM

BID Number 0707005046

Bids are due on or before

3:00 P.M., April 6, 2007

Bid Packets must be submitted in hard-copy via mail or courier as directed in Section #28.

Iowa Department of Administrative Services
General Services Enterprise

One (1) Each, Chlorine Gas , 150 lb. Cylinder, Delivered...$ 192 per 150 lb. Cylinder

Chlorine Gas:
Chemical Family: Halogen
Chemical Name/Synonym: Chlorine
Formula: Cl2 (Cl-Cl)
C.A.S. Registry No. 7782-50-5

Cylinder: 150 lb. Size, ... Minimum Order Qty: 3 cylinders
Meeting all Federal, State, Local requirements for the sale and transport of Chlorine Gas.

Delivered: Delivered on an as-needed basis within 15-days to the ...
Public Defense
Camp Dodge – Building S-8
7105 NW 70th Avenue
Johnston, Iowa

One (1) Each, DEP OSIT for 150 lb. Cylinder..... ...$ 0 per 150 lb. Cylinder
Deposit applies to any cylinder at any State of Iowa location which places an order under this contract.
Empty cylinders shall be picked-up at the time of product delivery and shall not require a separate trip.

NOTE: All Pricing is required on a DELIVERED BASIS.
All product pricing shall include freight/handling charges in the unit pricing offered above. No freight charges shall be invoiced or paid on a resulting contract.

(continued on the next page)

REQUEST FOR BID FORM

BID Number 0707005046

Bids are due on or before

3:00 P.M., April 6, 2007

Iowa Department of Administrative Services
General Services Enterprise

Bid Packets must be submitted in hard-copy via mail or courier as directed in Section #28.

Vendor Ordering Address: G.S. Robins & Co. 126 Chouteau Ave St. Louis, MO 63102

Vendor Payment Address: Same

Orders may be placed or customer service received at:
Phone: 1-800-626-5155, FAX: 314-621-1216

E-Mail: KadieL@gsrobins.com, Web-Site: www.gsrobins.com

Complete Vendor Information below:

Authorizing Signature: [signature]

Print Authorizing Signature Name: Tim Heidenry

Company Name Typewritten: G.S. Robins & Company

Mailing Address: 126 Chouteau Ave. St Louis MO 63102

Phone: 314-621-5155 ext. 242 **FAX:** 314-621-1216

E-Mail Address:

Payment Terms for State of Iowa Purchase Order: Net 30 days.

Federal Employment Identification Number: 430482430

Delivery will be made within 2-4 **calendar days after receipt of State Purchase Order.**

A prompt payment discount of 1 **% shall be applied to any order paid at the time of order placement via the State of Iowa Mastercard Procurement Card.**

OPTIONAL: Pricing is available to (Check all which apply):

X **Other State of Iowa Facilities,** X **Political Subdivisions of the State of Iowa**

Alexander
Chemical
Corporation

MATERIAL SAFETY DATA SHEET
CHLORINE
Effective 11/7/2003

SECTION 1 - EMERGENCY TELEPHONE

Alexander Chemical Corporation (business hours):	800/348-8827
Alexander Chemical Corporation (after business hours):	800/445-9458
CHEMTREC:	800/424-9300

SECTION 2 - DISTRIBUTOR INFORMATION

Alexander Chemical Corporation	Alexander Chemical Corporation
Kingsbury Industrial Park	6300 Trillium Trail
Kingsbury, Indiana 46345	Mason, Michigan 48854
800/348-8827	517/676 8884

SECTION 3 - PRODUCT IDENTITY

Product name: Chlorine. Chemical name: Chlorine. Chemical formula: Cl_2.

CAS number: 007782-50-5.

Hazardous ingredients: Chlorine, greater than 99.5% by volume.

OSHA 29 CFR 1910.1200 evaluation: Hazardous.

SECTION 4 - PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance and odor: Amber colored liquid; vaporizes to greenish yellow gas with pungent odor.

Boiling point: - 29.39 °F. Freezing point: -150 °F.

Specific gravity: Gas = 2.49 at 32 °F; Liquid = 1.47 at 32/39.2 °F.

pH: Acidic. Solubility in water: 0.73% at 68 °F.

Vapor pressure: 4,996 mm Hg at 68 °F.

Vapor density: 2.67 pounds per cubic foot at 68 °F.

Molecular weight: 70.9. Percent volatile by volume: 100.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

Flash point: None.

Flammable limits in air: Lower: None. Upper: None.

Autoignition temperature: Not applicable.

Fire fighting procedures / fire extinguishing media: Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind and out of low area; ventilate closed area before entering. Prevent human exposure to fire, smoke, fumes, or products of combustion. Self-contained positive pressure breathing equipment, fully enclosed protective clothing and structural fire fighter's protective clothing should be used by fire fighters. Move containers from the fire zone, if they can be moved without risk. For small fires, use dry chemical, carbon dioxide, or halon fire extinguishers. Use alcohol foam for large fires. If no chlorine is escaping, use water spray to cool containers. For massive fires, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from the area and let it burn.

Unusual fire and explosion hazards: Strong oxidizer. Chlorine itself is non-combustible, but most combustibles will burn in chlorine as in oxygen, forming irritating and toxic gases. Chlorine may ignite other combustible materials. Chlorine reacts explosively, or forms explosive compounds, with many chemicals such as acetylene, turpentine, ether, ammonia, hydrogen and finely divided metals.

SECTION 6 - REACTIVITY DATA

Stability: Stable under normal conditions. Hazardous polymerization: Will not occur.

Incompatibility (conditions and materials to avoid): Alkalis, reducing agents, combustible substances, finely divided metals, and organic material. Moist chlorine is highly corrosive to most metals. Chlorine reacts with most metals at high temperatures. Chlorine reacts with hydrogen sulfide and water to form hydrochloric acid; with carbon monoxide and sulfur dioxide to form phosgene and sulfuryl chloride. Chlorine is a strong oxidizer.

Hazardous decomposition products: Chlorine forms corrosive solution in water: hypochlorous acid and hydrochloric acid.

SECTION 7 - HEALTH HAZARD DATA

Primary routes of entry: Inhalation, direct contact and eye contact.

Acute health effects: Chlorine is a potent irritant to the mucous membranes of the eyes, nose ant throat, and to the linings of the entire respiratory tract. The extent of injury depends upon concentration and duration of exposure. Death may occur under severe exposure. In high concentrations, chlorine may cause skin irritation, with sensations of burning and prickling, inflammation and blister formation. Liquid chlorine may cause serious direct and eye burns on contact.

Chronic health effects: Chronic exposure to chlorine gas can cause corrosion of the teeth, diseases of the lung, and may predispose the individual to lung infections, including tuberculosis.

Potential adverse chemical interactions: Persons with pre-existing lung or skin diseases may be at increased risk to the toxic effects of chlorine on these organs. Smoking activity exacerbates the pulmonary toxicity of chlorine gas.

Inhalation: May cause severe irritation to the respiratory tract followed by coughing, burning, chest pain, vomiting, headache, anxiety and feeling of suffocation. Severe exposure may cause pneumonitis and pulmonary edema. Repeated exposure to chlorine may result in reduced pulmonary capacity and dental erosion.

Direct contact: Contact with liquid chlorine may cause burns, blistering and tissue destruction.

Eye contact: Liquid and or high concentrations of chlorine gas in contact with the eyes will cause extreme irritation and or burns.

Ingestion: Ingestion is unlikely.

Carcinogens (NTP, IARC OR OSHA): No.

SECTION 8 - FIRST AID

Inhalation: Remove victim to fresh air. If not breathing, perform artificial respiration. Administer oxygen until victim breathes easily. Keep warm and at rest. Get medical attention.

Direct contact: Flush immediately with soap and water for at least fifteen (15) minutes, while removing contaminated clothing. Get medical attention, if irritation persist. Never attempt chemical neutralization. Wash clothing before re-use. Destroy contaminated shoes.

Direct eye contact: Flush immediately with water for at least fifteen (15) minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye/lid tissue. Get immediate medical attention.

Ingestion: Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water or milk. If vomiting occurs spontaneously, keep airway clear and give more water or milk. Get medical attention.

Note to physician: Treatment is symptomatic. Because there is no known antidote for chlorine gas inhalation, effective and immediate relief of symptoms is the primary goal. Steroid therapy, if given early, has been reported effective in preventing pulmonary edema.

SECTION 9 - STORAGE, HANDLING AND USE

Precautions to be taken in handling and storage: Store chlorine containers in well ventilated area of low fire potential and away from incompatible materials. Keep away from heat and sources of ignition. Protect container from weather and physical damage. Regularly test and inspect piping and containment used for chlorine service. All chlorine process equipment should be kept dry.

Steps to be taken in case material is released or spilled: If material is spilled or released to the atmosphere, keep upwind, provide ventilation, wear full protective equipment and shut off supply at source. Exclude non-essential personnel. Contain liquids and prevent discharges to streams or sewer systems; and control or stop the loss of volatile materials to the atmosphere. Large leaks may require environmental consideration and possible evacuation. Do not apply water to leak. Position container to release gas, not liquid. Chlorine can be neutralized by absorbing into an alkaline material such as caustic soda, soda ash, lime, etc. Control large spills by diking and cover the spill with foam to reduce air contamination.

Waste disposal methods: Dispose of spilled material in accordance with all local, state and federal regulations.

SECTION 10 - EXPOSURE CONTROL INFORMATION

Exposure guidelines: ACGIH TLV TWA: 0.5 part per million. OSHA PEL: 1.0 part per million ceiling.

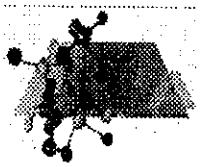
ACGIH STEL: 1.0 part per million. ACGIH IDLH: 10.0 parts per million.

Ventilation: Provide general and local exhaust ventilation to maintain exposure levels below recommended limits.

Respiratory protection: Use NIOSH approved respirators in accordance with 29 CFR 1910.132 and 1910.134.

Skin protection: Wear impervious gloves. Boots, aprons, and chemical suits should be worn when necessary to prevent contact.

Eye protection: Carefully fitted gas-tight chemical goggles, with approved impact resistant lenses. Eyewash fountains recommended in all storage and handling areas. Do not wear contact lenses.



Alexander
Chemical
Corporation

SECTION 11 - REGULATORY INFORMATION

S.A.R.A. Title III:

Section 302 and 304: Extremely hazardous substance.

Threshold planning quantity: 100 pounds.

Section 311 and 312 hazard categories: Acute, chronic, reactive and sudden release of pressure.

Section 313 toxic chemical: Chlorine.

C.E.R.C.L.A. reportable quantity: 10 pounds.

T.S.C.A.: Chlorine is listed.

D.O.T.:

Proper shipping name: Chlorine.

Hazard class: 2.3.

Identification number: UN 1017.

Packing group: Not applicable.

Special provision: Poison - inhalation hazard, zone B.

Other information:

Toxicity data:

Rat LC_{50}: 293 parts per million [one (1) hour].

Mouse LC_{50} : 137 parts per million [one (1) hour].

Fish (bluegill) LC_{50}: 0.4 part per million [ninety-six (96) hours].

Human LC_{50}: 874 parts per million [thirty (30) minutes].

N.F.P.A. ratings: Health = 4, Flammability = 0, Reactivity = 0, Special = Oxidizer.